

TRANSLATION

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference HC05P003	FOR FURTHER ACTION		See Form PCT/IPEA/416
International application No. PCT/JP2005/001941	International filing date (day/month/year) 09.02.2005	Priority date (day/month/year) 13.02.2004	
International Patent Classification (IPC) or national classification and IPC C09J163/00 (2006.01) , C09J9/02 (2006.01) , C09J11/04 (2006.01) , C09J11/06 (2006.01) , H01B1/00 (2006.01) , H01B1/22 (2006.01)			
Applicant HARIMA CHEMICALS, INC.			

<p>1. This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of 5 sheets, including this cover sheet.</p> <p>3. This report is also accompanied by ANNEXES, comprising:</p> <p>a. <input checked="" type="checkbox"/> (<i>sent to the applicant and to the International Bureau</i>) a total of 4 sheets, as follows:</p> <p><input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions).</p> <p><input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box.</p> <p>b. <input type="checkbox"/> (<i>sent to the International Bureau only</i>) a total of (indicate type and number of electronic carrier(s)) _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).</p> <p>4. This report contains indications relating to the following items:</p> <p><input checked="" type="checkbox"/> Box No. I Basis of the report</p> <p><input type="checkbox"/> Box No. II Priority</p> <p><input checked="" type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p><input type="checkbox"/> Box No. IV Lack of unity of invention</p> <p><input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement</p> <p><input type="checkbox"/> Box No. VI Certain documents cited</p> <p><input type="checkbox"/> Box No. VII Certain defects in the international application</p> <p><input type="checkbox"/> Box No. VIII Certain observations on the international application</p>

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/001941

Box No. I Basis of the report

1. With regard to the **language**, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

This report is based on translations from the original language into the following _____, which is the language of a translation furnished for the purposes of:

 - international search (Rule 12.3 and 23.1(b))
 - publication of the international application (Rule 12.4)
 - international preliminary examination (Rule 55.2 and/or 55.3)
2. With regard to the **elements** of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

the international application as originally filed/furnished

the description:

pages 1-29 as originally filed/furnished

pages* _____ received by this Authority on _____

pages* _____ received by this Authority on _____

the claims:

nos. 2, 3, 5, 7, 8 as originally filed/furnished

nos.* _____ as amended (together with any statement) under Article 19

nos.* 4, 9, 11, 12 received by this Authority on 25.07.2005

nos.* 1, 6, 10 received by this Authority on 22.03.2006

the drawings:

sheets _____ as originally filed/furnished

sheets* _____ received by this Authority on _____

sheets* _____ received by this Authority on _____

a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.
3. The amendments have resulted in the cancellation of:

the description, pages _____

the claims, nos. _____

the drawings, sheets/figs _____

the sequence listing (*specify*): _____

any table(s) related to sequence listing (*specify*): _____
4. This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

the description, pages _____

the claims, nos. _____

the drawings, sheets/figs _____

the sequence listing (*specify*): _____

any table(s) related to sequence listing (*specify*): _____

* If item 4 applies, some or all of those sheets may be marked "superseded."

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/001941

Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability

The questions whether the claimed invention appears to be novel, to involve an inventive step (to be non obvious), or to be industrially applicable have not been examined in respect of:

- the entire international application
 claims Nos. 10-12

because:

- the said international application, or the said claims Nos. _____ relate to the following subject matter which does not require an international preliminary examination (specify):

- the description, claims or drawings (*indicate particular elements below*) or said claims Nos. _____ are so unclear that no meaningful opinion could be formed (specify):

- the claims, or said claims Nos. _____ are so inadequately supported by the description that no meaningful opinion could be formed.

- no international search report has been established for said claims Nos. 10-12

- the nucleotide and/or amino acid sequence listing does not comply with the standard provided for in Annex C of the Administrative Instructions in that:

the written form has not been furnished

does not comply with the standard

the computer readable form has not been furnished

does not comply with the standard

- the tables related to the nucleotide and/or amino acid sequence listing, if in computer readable form only, do not comply with the technical requirements provided for in Annex C-bis of the Administrative Instructions.

- See Supplemental Box for further details.

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/001941

Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)	Claims	YES
	Claims 1-9	NO
Inventive step (IS)	Claims	YES
	Claims 1-9	NO
Industrial applicability (IA)	Claims	YES
	Claims 1-9	NO

2. Citations and explanations (Rule 70.7)

Document 1: JP 2003-147306 A (Fujitsu Limited), 21 May 2003

Document 2: JP 2003-45228 A (Hitachi Chemical Co., Ltd.), 14 February 2003

Document 3: JP 2000-290617 A (Asahi Chemical Industry Co., Ltd.), 17 October 2000

Document 4: JP 2000-192000 A (Asahi Chemical Industry Co., Ltd.), 11 July 2000

Document 5: JP 9-53001 A (Admatechs KK), 25 February 1997

The invention set forth in claims 1 to 9 lacks novelty and does not involve an inventive step in the light of documents 1 to 5 cited in the international search report.

Document 1 sets forth an epoxy resin containing a compound having a polycyclic aromatic ring structure such as a naphthalene ring of dihydroxy naphthalene diglycidyl ether or the like; document 2 sets forth an epoxy resin hardener containing acid anhydride such as phthalic anhydrides; document 3 sets forth a conductive filler of silver particles and the like; document 4 sets forth a hardening accelerator; and document 5 sets forth a conductive adhesive containing commonly-used additives

INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.
PCT/JP2005/001941Box No. V **Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement**

such as silane coupling agents. Documents 1 to 5 also set forth a feature wherein the composition ratio of conductive filler in relation to other binder components is a multiple of 2 to 10 by weight, or approximately 30% to 70% by volume.

Comparing the invention set forth in claims 1 to 9 of this application with the inventions set forth in documents 1 to 5, in the invention set forth in claims 1 to 9, a substance obtained by condensing a cyclic acid anhydride part with a cyclic hydrocarbon skeleton with a total of 8 or more carbon atoms is used as an acid anhydride hardener, while in documents 1 to 5, there is no specific disclosure concerning the use of said specific acid anhydride hardener, which may appear at a glance to constitute a difference, but examining the content of the description of this international application (especially the comparison of the results of implementation of comparative example 1 and comparative example 2), there is no technical creativity involved in selecting said acid anhydride, therefore no technical difference is acknowledged.

Therefore there is no effective technical (conceptual) difference between the invention set forth in claims 1 to 9 of this application and the inventions set forth in documents 1 to 5.